

# 水電解用電極触媒

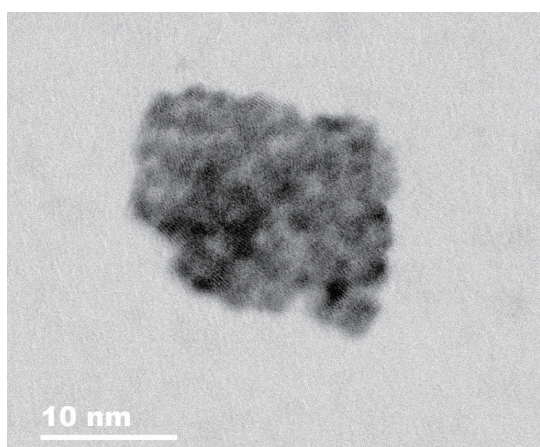
## Electrocatalyst for Water Electrolysis

近年、風力発電や太陽光発電等の再生可能エネルギーを利用して水を電気分解し水素を取り出す Power to Gasが注目されています。田中貴金属工業では、水電解用電極触媒の量産化を実現し、さらなる高活性・高耐久化を目指して開発を行っています。

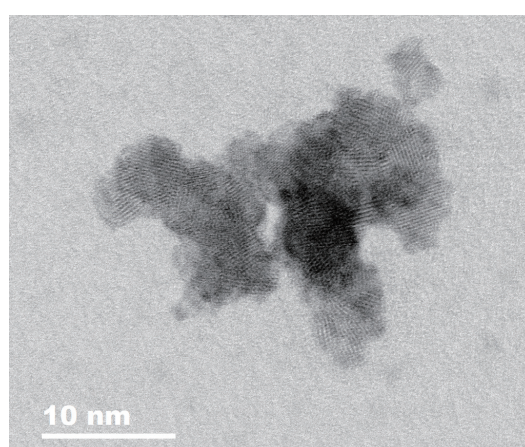
Recently, Power to Gas, which uses renewable energy such as wind and solar power to electrolyze water and produce hydrogen, has been attracting attention.

Tanaka Precious Metal Technologies has achieved mass production of electrocatalysts for water electrolysis, and is developing electrocatalysts with even higher activity and durability.

### 高活性酸化Ir触媒 TEC77100 High activity IrO<sub>x</sub> catalyst

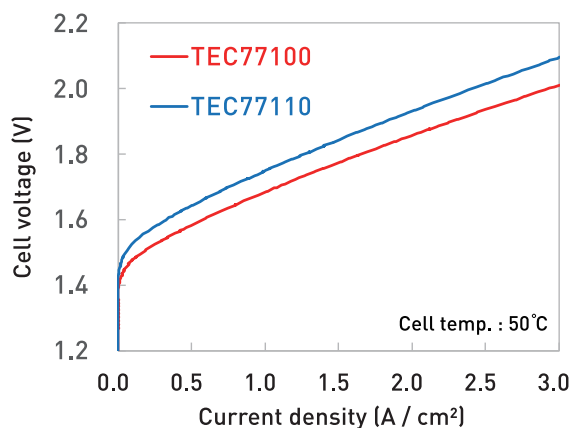


### 高耐久酸化Ir触媒 TEC77110 High durability IrO<sub>2</sub> catalyst



	TEC77100	TEC77110
Ir (wt%)	76	86
Catalyst surface area(m <sup>2</sup> /g)	90 - 120	40 - 70
Average crystallite size (Å)	10 - 20	20 - 40

### 初期性能 Initial performance



### 耐久性能 Durability

Catalyst	Degradation rate (μV / h)
TEC77100	5 - 40
TEC77110	0 - 10

※Cell temp.: 50°C, Constant current:2.0 A/cm<sup>2</sup>



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